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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/078,247	02/14/2002	Paul A. Wender	8400-0013	3262
23980 7590 05/29/2007 MINTZ, LEVIN, COHN, FERRIS, GLOVSKY AND POPEO, P.C 1400 PAGE MILL ROAD			EXAMINER	
			GUDIBANDE, SATYANARAYAN R	
PALO ALTO, CA 94304-1124		ART UNIT	PAPER NUMBER	
			1654-	
			MAIL DATE	DELIVERY MODE
	•		05/29/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
Office Action Summary		10/078,247	WENDER ET AL.			
		Examiner	Art Unit			
		Satyanarayana R. Gudibande	1654			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the	correspondence address			
A SH WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DAnsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Operiod for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be till apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).			
Status		•				
1)⊠	Responsive to communication(s) filed on <u>08 M</u> .	arch 2007.				
2a)[This action is FINAL . 2b)⊠ This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Dispositi	ion of Claims					
5)□ 6)⊠ 7)□	Claim(s) 1-6 and 8-35 is/are pending in the app 4a) Of the above claim(s) 3,5,6,9,10 and 12-35 Claim(s) is/are allowed. Claim(s) 1, 2, 4, 8 and 11 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	is/are withdrawn from considera	ition.			
Applicati	ion Papers		•			
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	epted or b) objected to by the drawing(s) be held in abeyance. Se ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).			
Priority (under 35 U.S.C. § 119		·			
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachmen	nt(s)					
1) Notic	ce of References Cited (PTO-892)	4) Interview Summary				
3) Infor	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date	Paper No(s)/Mail D 5) Notice of Informal I 6) Other:				

DETAILED ACTION

Continued Examination Under 37 CFR 1,114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 3/8/07 has been entered.

Applicant's amendments to claims in the response flied on 3/8/07 have been acknowledged.

Claims 1-6 and 8-35 are pending.

Claims 3, 5, 6, 9, 10 and 12-35 have been withdrawn from further consideration as being drawn to non-elected species.

Claim 7 has been canceled.

Claims 1, 2, 4, 8 and 11 are examined on the merit.

Any objections and rejections not specifically mentioned here is considered withdrawn.

Claim Objections

Claim 11 contains allowable subject matter but depends from a rejected claim 4.

Art Unit: 1654

Withdrawn Rejections

Claim Rejections - 35 USC § 112First Paragraph

Applicant's arguments and amendments to claims, see page 13, filed 3/8/07, with respect to claim rejection under 35 USC 112 first paragraph, have been fully considered and are persuasive. The rejection of claims 1, 2, 4, 8 and 11 has been withdrawn.

Maintained Rejections

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 2 and 8 remain rejected under 35 U.S.C. 102(b) as being anticipated by Lorezen, et al., The Journal of Cell Biology, 1995, 131, 631-643 as stated in our rejection dated 9/21/06 for claims 1, 2, 7 and 8.

Applicants argue that the claims have been currently amended creating another distinction between the cited reference of Lorenzen and the instant application. Applicants state that the inclusion of the phrase, "and a linker capable of self-immolation linking the biologically active compound and the transport moiety" is not described or implied in Lorenzen. Applicants further argue that Lorenzen teaches a peptide as part of a test peptide encoding a detectable marker protein and an amino acid sequence that includes TCPCP. The test peptide localizes to the nuclear membrane of a cell, where the marker is transcribed and translated in the cytoplasm.

Art Unit: 1654

By deletion analysis, Lorenzen claims that a downstream RKRKR sequence localizes the peptide to the nuclear membrane. However, this does not anticipate instant claims 1 or 2. In the instant claims, there are three separate regions that are covalently joined together (emphasis added by Examiner): (1) the biologically active compound, that is (2) linked by a linker, to (3) the transport region. Not only is there is no linker between the region that can optionally be RKRKR and the expressed marker region of the Lorenzen test peptide, there is no non-amino acid, self immolating linking moiety. The currently claimed invention provides the user the benefit of taking three separate elements, as noted above, and bringing them together to create a conjugate (emphasis added by Examiner) that can increase the amount of biologically active compound that can pass through a biological membrane, such as a cellular membrane. After passage of the conjugate through a biological membrane, the linker self-immolates, leaving a peptidyl transporter and the desired biologically active compound. Because anticipation requires the presence of all elements in the anticipating art, Lorenzen does not anticipate claims 1, 2 or 8.

Applicant's arguments filed 3/8/07 have been fully considered but they are not persuasive. Because, as stated in our previous office action dated 9/21/06, that the claims are drawn to "A composition comprising of...", and therefore, allows additional proteins and other substance to be present in the composition. Applicants argue that now the claims have been amended and recite the phrase, "and a linker capable of self-immolation linking the biologically active compound and the transport moiety" it precludes the cited reference from anticipation of the instant claims. Applicants, further state that the three separate regions are covalently joined together (emphasis added by Examiner): (1) the biologically active compound, that is (2) linked Art Unit: 1654

by a linker, to (3) the transport region. In the cited reference of Lorenzen, et al., in figure 1 on page 633, we have the schematic diagram of the TCPTP. The schematic diagram depicts the catalytic region in black (biologically active moiety of the instant invention) coupled to the intron region represented by diagonal lines (linker of the instant application) to the non-catalytic region represented by the open area that contains the RKRKR moiety which is a part of nuclear localization signal (transport moiety). Moreover, the claim as recited in the instant application does not recite a conjugate wherein the transport moiety, linker and biologically active moieties are linked to one another by covalent linkage, but, the claims are drawn to, "A composition comprising a biologically active compound, a transport moiety and a linker capable of selfimmolation linking the biologically active compound and a transport mojety". Therefore, the claims as recited are anticipated by the cited reference of Lorenzen and hence the anticipation rejection is maintained.

Claims 1 and 4 remain rejected under 35 U.S.C. 102(b) as being anticipated by Olsson et al., Biochim. Biophys. Acta, 1991, 1097:37-44 as stated in our rejection dated 9/21/06 for claims 1 and 4.

Applicants argue that Olsson does not teach all of the elements of the instant claims. Olsson lacks a teaching of a covalently bound linker between the transport moiety and a biologically active compound, let alone a teaching of a self-immolating linker. In fact, the arginine-serine region taught by Olsson is not bound at all to the biologically active compound. Instead, it is used in a competition-binding assay.

Page 6

Applicant's arguments filed 3/8/07 have been fully considered but they are not persuasive. Because, as stated in our previous office action dated 9/21/06, that the claims are drawn to "A composition comprising of...", and therefore, allows additional proteins and other substance to be present in the composition. Claim as recited does not recite a conjugate wherein the transport moiety, linker and biologically active moieties are linked to one another by covalent linkage. Again, the claims are drawn to, "A composition comprising a biologically active compound, a transport moiety and a linker capable of self-immolation linking the biologically active compound and a transport moiety". Therefore, the claims as recited are anticipated by the cited reference of Olsson and hence the anticipation rejection is maintained.

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 2, 4 and 8 remain rejected under 35 U.S.C. 102(e) as being anticipated by US 7,070,807 B2 issued to Mixson as stated in our rejection dated 9/21/06 for claims 1, 2, 4, 7 and 8.

Applicants argue that as with other references used in 102(b) rejection, Mixson does not teach a self-immolating linker.

Applicant's arguments filed 3/8/07 have been fully considered but they are not persuasive. Because, as stated in our previous office action dated 9/21/06, that the claims are drawn to "A composition comprising of...", and therefore, allows additional proteins and other substance to be present in the composition. Claim as recited does not recite a conjugate wherein Application/Control Number: 10/078,247

Art Unit: 1654

the transport moiety, linker and biologically active moieties are linked to one another by covalent

linkage. Again, the claims are drawn to, "A composition comprising a biologically active

compound, a transport moiety and a linker capable of self-immolation linking the biologically

active compound and a transport moiety". Therefore, the claims as recited are anticipated by the

cited reference of Mixson and hence the anticipation rejection is maintained.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Satyanarayana R. Gudibande whose telephone number is 571-

272-8146. The examiner can normally be reached on M-F 8-4.30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Cecilia Tsang can be reached on 571-272-0562. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Satyanarayana R. Gudibande, Ph.D.

Page 7

Art Unit 1654

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